






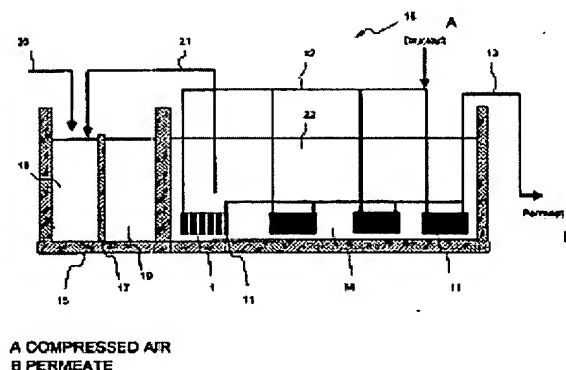
**Cited documents:**

-  DE10045227
-  DE19734759
-  US6214231
-  WO9706880
-  XP002252007

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The invention relates to a filtration device for separating particles from a liquid using hollow-fibre membranes, which are combined to form a fibre bundle. The hollow-fibre membranes are traversed by the liquid from the exterior to the interior and the liquid that has been cleaned of the particles is withdrawn at at least one of the ends of the hollow-fibre membrane. The hollow-fibre membrane bundle is wound onto a support, whose external peripheral surface can be traversed by a gas at least partially from the interior to the exterior. The winding of the hollow-fibre bundle onto the support permits a space-saving arrangement and allows deposited materials to be reliably cleaned from the hollow-fibre membranes. The filtration device can be used on its own or in the form of a module containing several devices for purifying waste water. The invention also relates to a method for purifying waste water using the filtration module and a membrane bioreactor.



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